

CLAIMS

WHAT IS CLAIMED IS:

1. An apparatus mounted on a lift of a vehicle to deploy a covering on a landfill, the apparatus comprising:

a spool adapted to support the covering;

connection members extending between the lift and said spool, said connection members being pivotally mounted on the lift allowing said spool to hang downwardly with gravity beneath the lift and adapted for suspending the covering below the lift to deploy the film over the landfill; and

said spool being releasably attached to the lift by said connection members for replenishing said spool with covering.

2. The apparatus of claim 1 wherein said connection members are selected from the group consisting of chains, braided wire, rope, or rigid beams.
3. The apparatus of claim 1 wherein the length of each of said connection members is adjustable.
4. The apparatus of claim 3 wherein said lift defines a lift axis and said spool defines a spool axis, said lift axis being at an angle to said spool axis.

5. The apparatus of claim 4 wherein the lengths of said connection members are adjusted to manipulate said angle to facilitate the deployment of the covering to the landfill.

6. The apparatus of claim 1 wherein said spool includes a mandrel extending between opposed flanges, said connection members having one end attached to said flanges.

7. The apparatus of claim 6 wherein said opposed flanges include a first flange coupled to one end of said mandrel and a second flange detachably connected to another end of said mandrel.

8. The apparatus of claim 7 wherein said second flange is connected to said mandrel by a J-slot and pin.

9. The apparatus of claim 6 wherein said flanges include a flat side.

10. The apparatus of claim 1 wherein said connection members include a connector adapted for mounting on said lift.

11. The apparatus of claim 10 wherein said connector includes a shield.

12. The apparatus of claim 1 further including a container rotatably mounted on the lift and adapted to contain a ballast for deployment on the covering.

13. The apparatus of claim 1 further including a sprayer disposed between said spool and the vehicle to apply a chemical solution.

14. The apparatus of claim 13 where said chemical solution includes a pesticide.

15. The apparatus of claim 13 wherein said chemical solution is a deodorizer.

16. The apparatus of claim 1 wherein said covering is a degradable film which seals with an adjacent film.

17. The apparatus of claim 1 wherein said connection members extend vertically.

18. The apparatus of claim 1 wherein an axis of rotation of the lift is above an axis of rotation of the spool.

19. The apparatus of claim 18 wherein a plane formed through the axes is vertical.

20. An apparatus for covering a landfill comprising:

a vehicle having a lift with a container disposed thereon;

a spool suspended below said container;

connection members extending between said lift and said spool, said connection members being pivotally mounted on said lift allowing said spool to hang downwardly with gravity beneath said container;

a roll of film disposed on said spool; and

ballast disposed in said container, said lift tilting said container to drop ballast onto said film.

21. The apparatus of claim 20 wherein said spool includes a mandrel disposed between flanged ends, said connection members having one end attached to said flanges.

22. The apparatus of claim 21 wherein said spool includes a mandrel disposed between said flanged ends having sector cuts adapted to face the landfill.

23. The apparatus of claim 21 further including bearing members disposed between said mandrel and said roll.

24. The apparatus of claim 23 wherein said bearing members are roller or ball bearings.

25. The apparatus of claim 20 further comprising a sprayer to apply a chemical solution to the landfill.

26. The apparatus of claim 25 wherein said chemical solution includes a pesticide.

27. The apparatus of claim 25 wherein said chemical solution includes a deodorant.

28. The apparatus of claim 20 wherein the vehicle is a dump truck.

29. The apparatus of claim 20 wherein the vehicle is a front end wheel loader.
30. The apparatus of claim 20 wherein said spool is suspended below the lift of the vehicle.
31. The apparatus of claim 20 wherein the length of each of said connection members is adjustable.
32. The apparatus of claim 31 wherein said lift defines a lift axis and said spool defines a spool axis, said lift axis and said spool axis being related by a skew angle.
33. The apparatus of claim 32 wherein the lengths of said connection members are adjusted to manipulate said skew angle to facilitate the deployment of the covering to the landfill.
34. A method for covering a landfill surface comprising:
- hanging a roll of film from a bucket on a mover;
 - rotatably disposing the roll of film on a spool below the bucket;
 - moving the mover over the landfill surface;
 - rotating the roll on the spool to unroll a panel of film from the roll;
 - deploying the film onto the landfill surface; and
 - operating the bucket to deposit ballast on top of the deployed film from the bucket.

35. The method of claim 34 further including overlapping adjacent panels of film on the landfill surface.

36. The method of claim 35 further including cutting the film to form the adjacent panels, the cutting being performed by an automated cutting device.

37. The method of claim 34 further including spraying a chemical solution on the landfill prior to deploying the film to the surface.

38. The method of claim 34 further including pouring the ballast from the bucket onto the film.

39. The method of claim 34 wherein the roll is wider than the mover.

40. The method of claim 34 further including intermittently depositing ballast onto the film.

41. The method of claim 34 further including varying the volume of ballast deposited onto the film.

42. The method of claim 34 wherein the roll of film is deposited at an angle to an axis of the bucket.

43. The method of claim 42 further comprising adjusting the angle of the roll of film to facilitate the deployment of the covering to the landfill.

44. A method for covering a surface of a landfill comprising:
- depositing ballast material in a bucket device of a loader;
 - hanging a film deployer from the bucket device;
 - backing the loader over the surface;
 - deploying the film from a spool mounted below the bucket; and
 - tilting the bucket device to deposit ballast material on top of the film from the bucket..
45. The method of claim 44 wherein adjacent panels of the film are deployed atop the surface of the landfill.
46. The method of claim 45 wherein adjacent panels of the film overlap.
47. The method of claim 46 wherein the film deployer is disposed at an angle to an axis of the bucket device of the loader.
48. The method of claim 47 further comprising adjusting the angle of the film deployer to facilitate the overlapping of the panels of film.
49. The method of claim 44 further including spraying a chemical pesticide on the landfill surface prior to deploying said film.